CLAIMS

Sub A1

1. Optical sight comprising:

an elongate housing defining a light channel;

a lens located at one end of the light channel and having a partially reflecting surface;

a laser diode for emitting light towards said reflecting surface to produce a light spot by direct imaging of the said laser diode on said surface to be superimposed on a target when sighting through the light channel from the other end thereof;

a battery for providing electric current; and

an energising circuit for energising said laser diode, operable to apply a pulsating electric current from said battery to said laser diode source for causing the laser diode to emit pulses of light.

~~2~~. Optical sight as in claim 1 wherein control means are provided for adjusting the intensity of the light spot.

3. Optical sight as in claim 2 wherein said control means comprise pulse width modulation of the laser diode source.

Sub A2

4. Optical sight as in claim 1 wherein control means are provided for energising the laser diode when the weapon is to be used and for automatically reducing energisation of the laser diode in dependence of a predetermined condition.

5. Optical sight as in claim 4 wherein said

a control means comprises a switch for ~~energising~~ energizing the laser diode.

6. Optical sight as in claim 5 wherein said switch is a manually operated switch.

7. Optical sight as in claim 4 wherein said control means comprises a time-out circuit for

a ~~deenergising~~ deenergizing the laser diode a predetermined period

a after the laser diode ~~having been energised~~ has been energized.

8. Optical sight as in claim 4 wherein said control means comprises a motion sensor for detecting vibration and motion of the sight when a weapon to which the sight is mounted being held by a user of the weapon and for ~~deenergising~~ deenergizing the laser diode when no vibration and motion being detected.

9. Optical sight as in claim 4 wherein said control means comprises a sensor for detecting the orientation of a weapon to which the sight is mounted for ~~energising~~ energizing the laser diode and maintaining the laser diode ~~energised~~ energized as long as the weapon is held by a user thereof in normal orientation of use.

10. Optical sight as in claim 4 wherein said control means comprises a sensor for detecting the presence of ambient light for ~~energising~~ energizing the laser diode and maintaining the laser diode ~~energised~~ energized at lightness and reducing the ~~energising~~ energizing of the laser diode in darkness.

11. Optical sight as in claim 4 wherein said control means comprises a sensor for detecting the presence of an eye looking through the sight, for ~~energising~~ energizing the laser diode when an eye is looking through the sight and maintaining the laser diode ~~deenergised~~ deenergizing in the absence of an eye looking through the sight.

12. Optical sight as in claim 4 wherein said control means comprises a detector for detecting a phenomenon associated with a human being for ~~energising~~ energizing the laser diode when detecting said phenomenon and ~~deenergising~~ deenergizing the laser diode in the absence of such phenomenon being detected.

13. Optical sight as in ~~any preceding~~ claim 1 wherein the wave length of the light emitted by the laser diode ranges from 630 to 700 nm.

Add C1